

# DeWALT

ENGINEERED BY **POWERS**

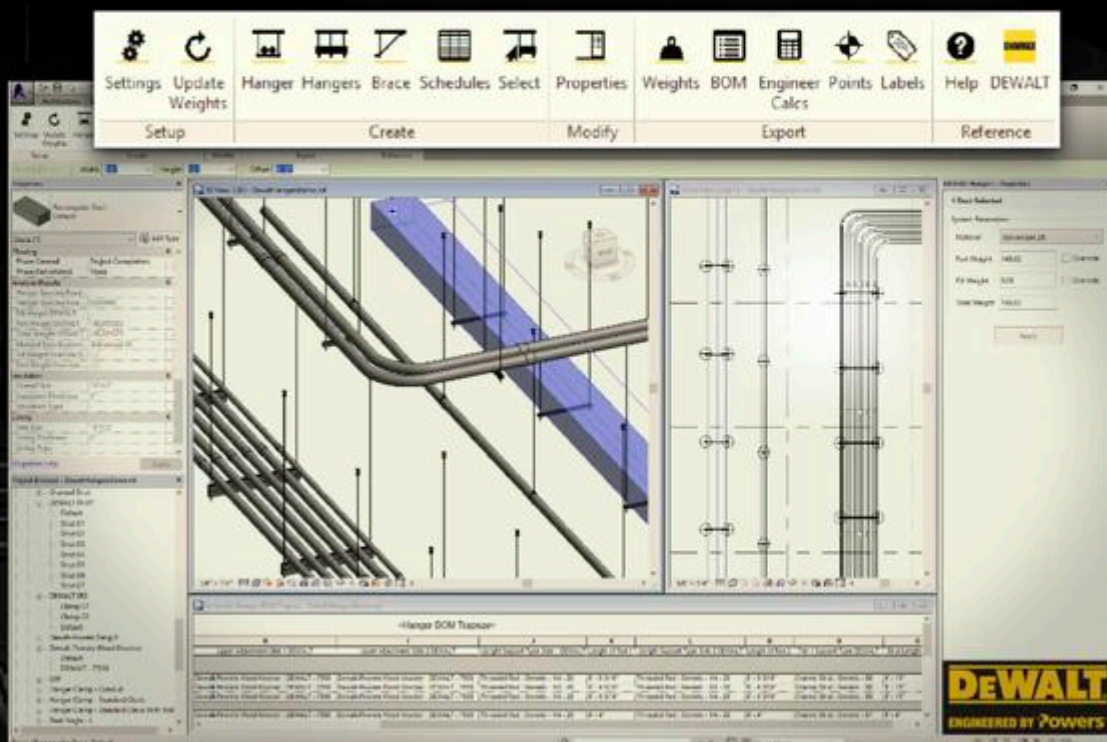
# DeWALT HANGERWORKS™

## Plug-In for Revit™

Automated Placement and Design of MEP Hangers



DeWALT HangerWorks plug-in for Autodesk Revit is a tool that automates the placement and design of hangers and seismic bracing for MEP systems such as pipe, duct, conduit, and cable trays. Complex engineering calculations are built-in to the tool that enable it to size hanger assemblies based on the weights of the MEP system including contents (water, wire, air) and determine hanger locations based on building code requirements and user-defined project standards. Contractors can expect to achieve significant BIM workflow efficiencies, cost savings, and safer buildings.



For additional information or to get started using HangerWorks contact:

Conk Buckley

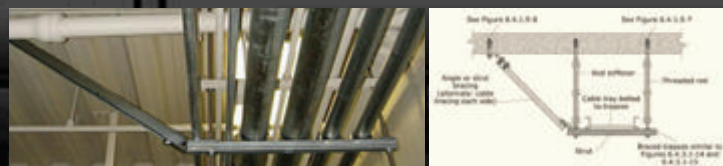
DWGTP@gogtp.com

HangerWorks Support:

(303) 547-2525

Live Instructional Webinars  
Scheduled Every Wednesday

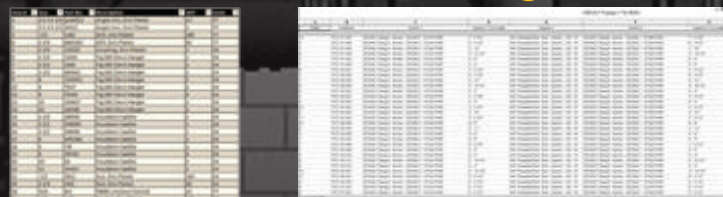
### Point Loads and Seismic



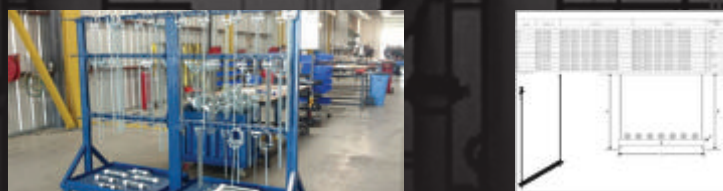
### Layout



### Scheduling and BOMs



### Prefabrication



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Feature	Pain Point	HangerWorks Solution / Benefits
<b>Automatic Hanger Placement</b>	<ul style="list-style-type: none"> <li>Placement has historically disregarded building-code requirements or structural point-load limitations</li> <li>Hanger sizing tables do not account for "hanger efficient" MEP design where parallel systems are supported</li> </ul>	<ul style="list-style-type: none"> <li>Sizes hanger and trapeze assemblies based on system material and content (water, wire, air). With this information, HangerWorks calculates hanger locations based on project standards with real-time engineering calculations on all components in the assembly and alerts the modeler when there are validation failures.</li> <li>Trapeze support for multiple systems is lacking in other tools</li> </ul>
<b>Point Load Calculation</b>	<ul style="list-style-type: none"> <li>Hanger components and point load limits can be overloaded</li> <li>MEP design doesn't calculate loads and stress differences especially when a trapeze supports parallel systems</li> </ul>	<ul style="list-style-type: none"> <li>Real-time load calculations as the model changes</li> <li>Calculates loads based on system material and content</li> <li>Adjusts point loads and stress differences between left and right components</li> <li>Validates load on hanger components</li> </ul>
<b>Automatic Seismic Bracing</b>	<ul style="list-style-type: none"> <li>Seismic bracing calculation requires outside engineering</li> <li>Impractical to calculate load for each hanger during design</li> <li>Bracing not modeled</li> </ul>	<ul style="list-style-type: none"> <li>Automates engineering calculations</li> <li>Used during the life cycle of the BIM workflow</li> <li>Calculations based on: <ul style="list-style-type: none"> <li>Building Code Requirements</li> <li>Trade and Common Practice Rules</li> </ul> </li> </ul>
<b>Coordination Efficiency</b>	<ul style="list-style-type: none"> <li>Adding hangers and braces to an MEP system model post-coordination adds additional rounds of coordination, locations may not be possible</li> </ul>	<ul style="list-style-type: none"> <li>Integrate hanger assembly placement during normal coordination meetings, not post-coordination meetings</li> <li>Ability to move a hanger or system and see how it impacts point loads</li> <li>Saves days not hours</li> </ul>
<b>Model Accuracy</b>	<ul style="list-style-type: none"> <li>Assemblies may not be designed with actual components from common hardware manufacturers</li> </ul>	<ul style="list-style-type: none"> <li>Provides manufacturer specified hanger component catalogs</li> <li>Accurate dimensional information, engineering properties and cost information</li> <li>Optimizes hanger component selection and size to support the weight</li> <li>Enables users to discover clashes that would have previously been overlooked which improves the BIM workflow</li> </ul>
<b>Component Cost Comparisons</b>	<ul style="list-style-type: none"> <li>Most Fab shops are unable to compare component costs</li> <li>Current hanger and bracing components are modeled as generic components, not manufacturer specific</li> </ul>	<ul style="list-style-type: none"> <li>Provides the ability to compare cost by: <ul style="list-style-type: none"> <li>Creating accurate Bill of Materials report for various systems</li> <li>Configure fields for individual cost content: <ul style="list-style-type: none"> <li>Components - actual supplier content, not generic</li> <li>Installation times</li> <li>Shop and field labor rates</li> </ul> </li> <li>Performs true cost benefit analysis on design selections</li> </ul> </li> </ul>
<b>Actionable Output</b>	<ul style="list-style-type: none"> <li>Optimized BIM workflow tools should generate actionable output for purchasing, scheduling, submittals, engineering, fabrication teams, layout crews and installation teams</li> </ul>	<ul style="list-style-type: none"> <li>Shop drawings / Spool sheets / Cut List report is auto-generated for prefabrication containing lists of all components and cut lengths which can be sent to the fabrication shop</li> <li>Exportable hanger points from the model</li> <li>Engineering Report with all point loads and full calculations</li> <li>Hanger Labels</li> <li>Bill of Materials report for all hanger and bracing components simplifies ordering and planning of material deliveries</li> </ul>